

Focus Area 16: Maternal, Infant, and Child Health

Objective 16-1g targets the reduction in the infant death rates due to congenital heart and vascular defects to 0.38 per 1,000 live births.

A total of 246 California infants born in 2000 died from congenital heart and vascular defects in their first year of life, at a rate of 0.46 per 1,000 live births based on data extracted from the Birth Cohort Files (Figure 16-1g, Table 16-1g). For 2001 a total of 263 infant deaths were reported at a rate of 0.50 per 1,000 live births, and for 2002 there were 237 infant deaths at a rate of 0.45. California's infant death rate due to heart and vascular defects remained higher than the target established in HP2010.

Data by race-ethnicity of the mother show that Hispanics/Latinos (0.49 per 1,000 live births in 2002) and Blacks/African Americans (0.52 per 1,000 live births in 2001) had the highest cohort infant death rates due to heart and vascular defects. As of 2002, the objective had only been achieved for Asian infants (0.34 per 1,000 live births). Death rates for American Indians/Alaska Natives, Native Hawaiian/Other Pacific Islanders, and the "Multirace" populations were unreliable due to the small numbers of events and are not shown here.

Examined by age of mother, the highest reliable cohort infant death rates due to heart and vascular defects occurred for mothers aged 35 years and over (0.55 per 1,000 live births in 2002), followed by mothers aged 20-24 years (0.50 per 1,000 live births in 2002). The HP2010 objective was only being achieved for mothers aged 25-29 years (0.36 per 1,000 live births in 2002).

Cohort infant death rates for male infants (0.46 per 1,000 live births in 2002) were not significantly different from female infant death rates (0.44 per 1,000 live births in 2002). The HP2010 objective is not being achieved for either male or female infants as of 2002.

For more information on birth defects in California, visit the Genetic Diseases Branch Web site at:

<http://www.dhs.ca.gov/org/pcfh/GDB/gdbindex.htm>

and the Birth Defects Monitoring Program Web site at:

<http://www.cbdmp.org/>

For more information on Healthy People 2010 objective 16-1g, please visit:

http://www.healthypeople.gov/Document/HTML/Volume2/16MICH.htm#_Toc494699661
and

<http://www.healthypeople.gov/Document/html/tracking/od16.htm#fetaldeaths>

Figure 16-1g
Infant Death Rates Due To Congenital Heart and Vascular Defects
By Race-Ethnicity and Age of Mother, Sex of Child
California, 2000-2002

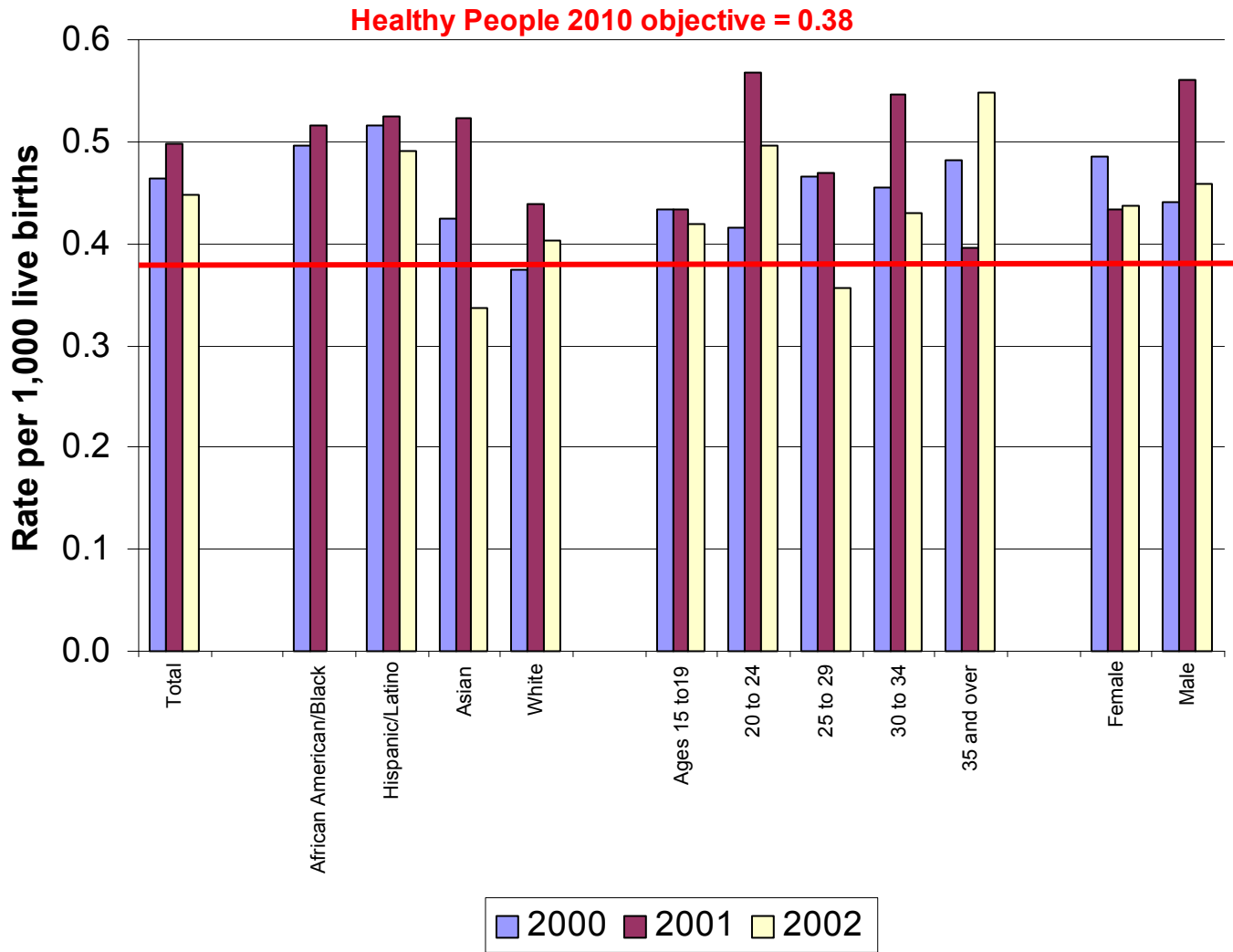


Table 16-1g
Infant Deaths and Death Rates Due To Congenital Heart and Vascular Defects
California, 2000-2002

Cohort Infant Death Rates*	2000					2001				
	Infant Deaths	Live Births	Rate ¹	Lower 95% C.I.	Upper 95% C.I.	Infant Deaths	Live Births	Rate ¹	Lower 95% C.I.	Upper 95% C.I.
Healthy People 2010 Target	0.38					0.38				
CALIFORNIA TOTAL	246	531,313	0.46	0.41	0.52	263	527,452	0.50	0.44	0.56
Race-Ethnicity of Mother										
African American/Black	16	32,290	0.50	0.25	0.74	16	30,971	0.52	0.26	0.77
American Indian/Alaska Native	1	1,975	DSU	-----	-----	0	1,986	0.00	0.00	0.00
Asian	25	58,872	0.42	0.26	0.59	30	57,444	0.52	0.34	0.71
Hawaiian/Pacific Islander	1	2,376	DSU	-----	-----	2	2,356	DSU	-----	-----
Hispanic/Latino	133	257,963	0.52	0.43	0.60	137	261,022	0.52	0.44	0.61
White	63	168,219	0.37	0.28	0.47	72	163,787	0.44	0.34	0.54
Multirace	4	6,254	DSU	-----	-----	3	6,388	DSU	-----	-----
Maternal Age Group										
Under 15	2	895	DSU	-----	-----	0	810	0.00	0.00	0.00
15 - 19	24	55,375	0.43	0.26	0.61	23	52,972	0.43	0.26	0.61
20 - 24	51	122,581	0.42	0.30	0.53	70	123,231	0.57	0.43	0.70
25 - 29	65	139,604	0.47	0.35	0.58	64	136,448	0.47	0.35	0.58
30 - 34	58	127,509	0.45	0.34	0.57	70	127,951	0.55	0.42	0.68
35 and over	41	85,251	0.48	0.33	0.63	34	85,948	0.40	0.26	0.53
Sex of Child										
Female	126	259,218	0.49	0.40	0.57	112	258,171	0.43	0.35	0.51
Male	120	272,089	0.44	0.36	0.52	151	269,268	0.56	0.47	0.65

Cohort Infant Death Rates*	2002				
	Infant Deaths	Live Births	Rate ¹	Lower 95% C.I.	Upper 95% C.I.
Healthy People 2010 Target	0.38				
CALIFORNIA TOTAL	237	529,334	0.45	0.39	0.50
Race-Ethnicity of Mother					
African American/Black	15	29,809	DSU	-----	-----
American Indian/Alaska Native	1	1,966	DSU	-----	-----
Asian	20	59,376	0.34	0.19	0.48
Hawaiian/Pacific Islander	1	2,411	DSU	-----	-----
Hispanic/Latino	129	263,056	0.49	0.41	0.58
White	65	161,486	0.40	0.30	0.50
Multirace	1	6,812	DSU	-----	-----
Maternal Age Group					
Under 15	0	743	0.00	0.00	0.00
15 - 19	21	50,209	0.42	0.24	0.60
20 - 24	61	123,066	0.50	0.37	0.62
25 - 29	49	137,242	0.36	0.26	0.46
30 - 34	56	130,377	0.43	0.32	0.54
35 and over	48	87,611	0.55	0.39	0.70
Sex of Child					
Female	113	258,896	0.44	0.00	0.00
Male	124	270,429	0.46	0.00	0.00

SOURCE: California Department of Health Services, Birth Cohort Perinatal Files, 2000-2002.

NOTES: * Cohort files contain linked birth and death records for infants born in the same calendar year and followed for one year to determine how many died in their first year of life; congenital heart and vascular defect deaths defined by ICD-10 codes Q20-Q24 (heart) and Q25-Q28 (circulatory system).

¹ Rate per 1,000 live births; by mother's place of residence.

DSU Data Statistically Unreliable due to small number of events.